

Polymerization of Ethylene and Other Olefines,
by K. Ziegler, Supp.

ITALIAN, per, Chim e Industria, Vol XXVII,
1955, pp 861, 862.

SLA/INSDOC-T-1993

Sci.

Anal 58

68,487

63 22407

Natta, G., Ercoli, R., and Calderazzo, F.
SYNTHESIS OF AROMATIC-CHROMIUM-TRICAR-
BONYL COMPOUNDS [Sintesi di Arene-Cromo-Tri-
carbonyli]. [1963] 10p
Order from K-H \$10.00 K-H-8254

Trans. of la Chimica e l'Industria (Italy) 1958, v. 40,
no. 4, p. 28-37 [1961].
Another translation available from SLA for \$1.80,
plus \$1.90 for 61-10/00 [1961] 9p.

DESCRIPTORS: *Metalorganic compounds, Synthesis
(Chemistry), Benzen derivatives, *Chromium com-
pounds, *Carbonyl radicals, *Benzenes, *Toluenes,
*Xylenes, *Naphthalenes, *Benzotates.

For abstract see Technical Translations 5: 546, 1961.

(Chemistry--Organic, TT, v. 10, no. 11)

- I. Title: Arene chromotri-
carbonyls
- I. Natta, G.
- II. Ercoli, R.
- III. Calderazzo, F.
- IV. K-H-8254
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Stereospecific Polymerization of Styrene. I.
Data and Problems on Crystalline Polystyrenes, by
G. Natta, M. Danusso.

ITALIAN, per, Chim e ind, Vol XL, No 6, 1958,
pp 445-450.

SIA 62-14645

ATS 161-LJ

SIA 59-17209

Sel
Nov 59

109,401

Stereospecific Polymerization of Styrene, IX.
Characteristics of the Catalyst System
 $\text{TiCl}_4\text{-Al}(\text{C}_2\text{H}_5)_3$, 1959, by F. Danusso, R. Sianesi,
18 pp.

ITALIAN, *Rev. la Chimica e l'Industria*, 1958,
Vol. III, No 6, pp 450-457.

SLA 59-15514
ATS 159-IJ

Sci
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Vol 2, No 3

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Polymerization of Ethylene on Metallic Cesium
and Rubidium, by G. Lemetre, V. Martello, G.
Nobile-Cirazio, 13 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XL,
1958, pp 470-475.

SLA 5)-15986

Sci.
Jan. 60
Vol. 2, No. 7

104,499

Homogeneous Liquid-Phase Hydrogenation of Furan
Compounds Catalysed by Cobalt Carbonyls, II.
Bisoli, R. E. Torregrossa,

ITALIAN, per, Chim e ind, Vol XL, No 7, 1958.
pp 552-556.

ATS 247-13

641
New 59

100,684

Kinetics of the Polymerization of Propylene by
Means of Heterogeneous Catalysts With High Stereo-
Specificity. VI. Kinetic Determination of Active
Centers, by G. Natta, et al.

ITALIAN, per, Chem e ind, Vol XL, No 7, 1958,
pp 556-560.

ATS 156-IJ

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Elaboración de la síntesis de compuestos de
nitrilo. Características físicas y químicas de
los compuestos de nitrilo, by J. Bonafant, et al. 1958.

INDUSTRIAL, por, la Química e Industria, Vol. XI,
No. 6, 1958, pp 623-633.

SIA 59-15223

Sci - Chem
Sep 58
Vol. 2, No. 8

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The Reaction Between Quaternary Ammonium Sur-
factants and Methyl Orange, by Giorgio Nebbia,
6 p.

REVELLAN, per, la Chimica di Industria, 1958,
Vol. XI, No 8, pp 638-640.

SLA 59-20219

Sci
Feb 60
Vol. XI, No. 12

108, 223

Copolymerization of Ethylene With Aliphatic
Olefins. Part 4. Ethylene-Propylene Copoly-
merization by Means of Vanadium Trichloride
Catalysts, by G. Natta, G. Mazzanti, et al, 12 pp.

ITALIAN, per, Chimica e l'Industria, Vol XL,
No 9, 1958, pp 717-724.

Assoc Tech Serv 14K771
12.95

Unit - Chem
CMB I, 4
Apr 59

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63-14191

Foraboschi, Franco F.

CONVERSION IN A CONTINUOUS PHOTOCHEMICAL
REACTOR: DIMENSIONAL CONSIDERATIONS.

[1963] 14p. (fig. formulae omitted) 10 refs.

Order from SLA \$11.60

63-14191

1. Foraboschi, F. F.

Trans. of la Chimica e l'Industria (Italy) 1959,
v. 41, no. 8, p. 751-757.DESCRIPTORS: *Photochemistry, Laboratory equip-
ment, Cylindrical bodies, Tanks (Containers),
Monochromatic light, Fluid flow, Oxalic acids,
Equations, Reaction kinetics.

The dimensioning of a continuous photochemical
reactor, cylindrical with circular section, lighted
uniformly with monochromatic light, when the motion
of the fluid is laminar, is studied. Some simplified
hypotheses are made and a system of equations
(Chemistry-Physical, TT, v. 10, no. 4) (over)

Office of Technical Services

Tacticities: Polymers of Vinyl Monomers Containing
Silicon, by G. Natta, G. Mazzanti, et al, 8 pp.

ITALIAN, part, la Chimica e l'Industria, Vol XL,
No 10, 1958, pp 813-815.

SIA 59-10172

Sci - Chem
Sep 59
Vol 2, No 1.

97,272

Polymerization of Ethylene With Soluble Catalysts, by
M. Pirina, R. Ragazzini, 11 pp.

ITALIAN, par. La Chimica e l'Industria, Vol XL, No 14,
a 1958, pp 816-819.

SLA 59-10170

Sci. e Chem.

Sep 59

Vol 2, No 1

97,264

Copolymerization of Ethylene with Aliphatic
 α -Olefins. V. Ethylene-Propylene Copolymerization
by Means of Titanium Halide Catalysts, by G. Natta,
A. Valvassori, et al., pp 17 pp.

ITALIAN, per, *Chimica e l'Industria*, Vol XL, No 11,
1958, pp 896-905.

Asso Tech Serv
63X281

Sci - Chem
OTS 1, 9
Jun 59

89,525

Stereospecific Polymerization of Styrene. IV. The
Effect of the Catalyst Ratio in the System $\text{Al}(\text{C}_2\text{H}_5)_3$ -
 TiCl_4 , by M. Danusso, D. Sianesi, 16 pp.

ITALIAN, chimica e l'Industria, Vol XL, No 11,
1958, pp 909-914.

SLA 59-15978

Sci
Dec 59
Vol 2, No 5

104,256

Natta, G., Ercoli, R., Calderazzo, F., and
Santambrogio, E.

CONCERNING SOME REACTIONS OF THE ARYL-
CHROMOTRICARBYONYLS. [1963] 19p
Order from K-H: \$119.00

K-H 8891

Trans. of the Chemical Industry (Italy) 1958, v. 40
[no. 12] p. 1003-1007.

Another trans. is available from SLA ml\$2.70,
pb\$4.80 as 59-10415 [1959] 24p.

DESCRIPTIONS: "Metalorganic compounds, Benzene
derivatives, "Pyridines, "Chromium compounds,
"Carbonyl radicals, Chemical reactions.

For abstract see Technical Translations 1; 396, 1959.

(Chemistry--Organic, TT, v. 10, no. 10)

65-2246

I. Title: Arene Chromotri-
carbonyls

I. Natta, G.

II. Ercoli, R.

III. Calderazzo, F.

IV. Santambrogio, E.

V. K-H-8891

VI. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

A Few Reactions of Arene Chromotricarbonyls,
by G. Matti, R. Ercoli, et al., 24 pp.

ITALIAN, per, La Chimica e l'Industria, 1958,
Vol XL, No 12, pp 1003-1007.

SLA 99-10425

Sci - Chem
OBB 1, 12
Jul 59

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stereospecific Polymerization of Styrene Article
V. Effect of Temperature on Catalysis by
 $Al(C_2H_5)_3$ and $TiCl_4$, by F. Danusso, B. Calceano,
D. Sisti, 23 pp.

ITALIAN, paper, la Chimica e l'Industria, Vol XLII,
No 1, 1960, pp 13-18.

SLA 59-15033

Sci. - Chem
Dec 59
Vol 2, No 4

102 785

Stereospecific Polymerization of Conjugated Diolefins.
II. Polymerization of Butadiene With Catalysts Pre-
pared From Aluminum Alkyls and Soluble Vanadium
Chlorides, by G. Batta, L. Porri, A. Mazzei, 20 pp.

ITALIAN, per, Chimica e l'Industria, Vol. XLI, No. 2,
1959, pp. 116-122.

SLA 59-15340

Sci. - Chemistry
Nov 59

103,286

The Elastomeric Properties of Ethylene-
Propylene Copolymers, by G. Natta, G. Crespi,
12 pp.

ITALIAN, Per, la Chim e l'Industria, 1959,
Vol XLII, No 2, pp 123-128.

SLA 59-15628

Sci
Oct 59
Vol 2, No 3

99,890

Reactions Between Acetylene Hydrocarbons and
Carbon Monoxide Catalyzed by Cobalt Carbonyls.
PT. I. Octatrienediolides, by G. Albanesi,
M. Tompallieri, 27 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XLII,
No 3, 1959, pp 189-194.

SLA 59-15342

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Dec 59
Vol 2, No 4

102, 731

Chromatographic Analysis in Gaseous Phase of Hydrocarbons from C_1 to C_4 by the Use of Magnesium Silicate, by V. Crespi and F. Cevolani.

ITALIAN, per, La Chimica e l'Industria, Vol XLI, No 3, 1959, pp 215-217

CSIRO Tr 4474

Oct. 62

PRODUCTION OF CARBON DIOXIDE
Sulfurous Anhydride, by M. Baccanella, M. del
Guerra, G. P. Nazzetti, 12 PP.

ITALIAN, per, ~~la Chimica e l'Industria~~, Vol XL, 6,
No 6, 1959, pp 277-280.

SLA 60-14493

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Apr 61

OMH, Vol III, No 12

163,232

II Characteristics of the $\text{VOCl}_3\text{-Al}(\text{CH}_2\text{CH}(\text{CH}_3)_2)_3$
Catalyst System, by I. Pasquon, E. Giachetti,
L. Giuffrè, 15 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XL.I,
No 4, 1959, pp 281-286.

SLA 59-17205

Sol
Jan. 60
Vol. 2, No 7

104,503

Site-specific Polymerization of Vinyl-
Aromatic Monomers, by D. Sianesi, M. Rampichini,
P. D'Amico, 15 p.

ITALIAN, per, La Chimica e l'Industria, 1959,
Vol XLII, No 4, pp 287-292.

SLA 59-17206

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Dec 59
Vol. 12, No 6

104,004

The Chemistry of Polyamides, by C. Champetier,
23 pp.

ITALIAN, per, La Chimica e l'Industria, Vol XII,
No 4, 1959, pp 310-318.

SLA 60-16659

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Sci
Vol IV, No 7
April 62

The Kinetics of Polymerisation with the Catalytic
System Vanadium Oxychloride and Aluminum, by
I. Pasquon, M. Dente, F. Narduzzi, 25 p.

TRANSAK, par, la Chim Ind, 1959, Vol XII, No 5,
pp 3571-3571.

SLA 59-40081

Sci
Tech (6)
Vol. 12, No. 10

108,836

Stereospecific Polymerization of Aromatic Vinyl
Monomers, II. Halogen-Substituted Styrenes,
by D. Nisnesi, R. Serra, F. Danusso, 13 p.

ITALIAN, per, Chimica di Industria, 1979,
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SLA 60-10599

Sci

May 60

Vol 3, No 4

116,782

The Influence of Hydrogen on the Anionic
Coordination Polymerization of Propylene and
of Ethylene, by G. Natta, G. Mazzanti, 20 p.

ITALY, per, Chimica di Industria, 1979,
Vol. 10, No. 6, pp. 519-526.

SLA 60-10794

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May 60
Vol. 10, No. 6

116, 778

Stereospecific Polymerizations of Conjugated
Dioléfins, Note IV. Preparation of Syndiotactic
1, 2-Polybutadiene, by O. Natta, L. Porri, 18 p.

ITALIAN, per, Chimica e l'Industria 1959,
Vol XXI, No 6, pp 526-533.

SLA 60-10487

Sci
Apr 60
Vol XXI, No 3

112,090

The Characteristics of the Polypropylene Obtained
With the Catalytic System Vanadium Oxychloride-
Aluminum Triisobutyl, by Italo Pasquon, 15 p.

ITALIAN, per, la Chim Ind, 1959, Vol XLI, No 6,
pp 536-539.

SLA C 59-20850

Sci
Mar 60
Vol 9, No 11

119,868

A New Italian Demonstration in the Textile Industry:
The Polypropylene Fibre, by Giulio Natta, 18 p.

ITALIANI, per, la Chimica e l'Industria, 1959,
Vol XIX, No 7, pp 647-652.

SLA 59-20861

Sci
Mar 60
Vol 3, No 1

110,971

The Copolymerization of Ethylene With the
Aliphatic Alpha Olefins, Note VI.
Copolymerization of Ethylene With Butene-1, by
G. Datta, G. Mazzanti, et al, 34 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XII,
No 8, 1959, pp 764-775.

SLA 60-10901

Sci.
Jan. (4)
Vol. XII, No 5

119,072

THE Cryoscopy of High-molecular-weight Compounds,
by U. Bianchi, C. Rossi, 14 pp.

ITALIAN, per, la Chimica e l'Industria,
Vol. XII, No 9, 1959, pp 875-879.

SLA 60-14239

Sci.
Feb 62
Vol. XII, No 11

184,887

Cocco, Antonio

COMPOSITION LIMITS AT HIGH TEMPERATURES
OF THE PHASE, WITH CUBIC STRUCTURE, CON-
SISTING OF ZrO_2 AND CaO . [1961] (10)p. 7 refs.
Order from SIA m\$1.80, ph\$1.80 61-10898

Trans. of la Chimica e l'Industria (Italy) 1959, v. 41,
no. 8, p. 882-815.

At a temperature of 1600°C. in an oxidizing milieu,
the phase with cubic structure is limited to a range
lying between about 5 and 10% CaO , and correspond-
ingly 95 to 90% ZrO_2 . With higher percentages of
 CaO , $CaO \cdot ZrO_2$ appears in equilibrium with this cu-
bic phase. For lower percentages, on the other hand,
the ZrO_2 appears with a tetragonal structure, which
probably holds a very small percentage of calcium
oxide in solid solution. At lower temperatures the
domain of the cubic solid solution is restricted, as
the curve bounding its extension toward ZrO_2 tends to
shift toward the curve bounding its extension toward
 $CaO \cdot ZrO_2$. (Author)

61-10898

1. Calcium oxide-zirconium
dioxide systems--Phase
studies
1. Cocco, A.

148699

Office of Technical Services

(Chemistry--Physical, TT, v. 5,
no. 17)

Stereospecific Polymerisation of Vinyl Aromatic
Monomers. III. Vinyl Derivatives of Polynuclear
Aromatic Hydrocarbons, by Dario Bianesi,
Antonio Marchi, Ferdinando Damasco, 11 pp.

ITALIAN, per, ~~EXPERIMENTA~~ la Chimica e l'Industria,
Vol. XLII, No 10, 1959, pp 964-967.

~~EXPER~~ SLA 60-14125

Sci
Jan 62
Vol. XII, No 10

179,913

Stereospecific Polymerization of Vinyl Aromatic
Monomers. IV. Reactivity of the Monomers in the
Overall Process, by G. Natta F. Danusso, et al,
20 pp.

ITALIAN, per, la Chimica e l'Industria, Vol XLI,
No 10, 1959, pp 968-974.

SLA 60-14211

Sci
ORS, Vol XLII, No 8
Apr 61.

145, 119

Identification of Bis(Tricarbonylchromium) Complexes by
Reaction of Binuclear Aromatic Compounds With
Tricarbonyl-Chromium-Arenes, by R. Frecoli,
D. Galdames, A. Alberola, 17 pp.

ITALIAN, per, la Chimica e l'Industria,
Vol. XII, No 10, 1959, pp 975-980.

SLA 60-14560

Sci
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Vol. XII, No 11

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Heat Stability of PVC: Influence of the Kind
of Initiator, by A. Cittadini, R. Paolillo.

~~Chimica~~, Chimica et l'Industria,
Vol. XLII, No. 10, 1979, pp 980-983.

CSTRO

Sci - Chem
Jul 62

207, 653

The Viscometric Determination of the Average Molecular Weight of Ethylene-Propylene Copolymers, by P. Moraglio
10 pp.

ITALIAN, per, La Chimica e l'Industria, Vol XLI,
No 10, 1959, pp 984-987.

SLA 60-14410

Sci.

Sup 61

Vol. III, No 9

169.0065

Stereospecific Polymerisations of Conjugated
Diene. V. The Preparation and Properties
of Isotactic 1,2-Polybutadiene, by G. Natta,
L. Porri.

ITALIAN, per, Chimica Industriale, Vol. XL, No 12, 1959, pp 1163-1169.

OTB(CI)M)-103

Encl.
116 May 62
Vol. IV, No 8

198, 218

Polymerization of Vinyl Chloride. VIII. Kinetic
Chain Length and Mechanism in the Presence of
Acrylonitrile-Butyronitrile, by F. Danusso,
G. Injara, D. Sianesi.

ITALIAN, per, Chimica Industriale, Vol. XLI, No. 12,
1959, pp 1170-1175.

CIS(Chem)-102

198,247

Sci
25 May 62
Vol. IV, No. 8

Stanetti, D. [Pajaro, G., and Danusso, F.].
COMPOSITION AND REACTIVITIES IN THE STEREO-
SPECIFIC COPOLYMERIZATION OF VINYL ARO-
MATIC MONOMERS. tr. by H. H. Smith. July 60,
13p. 13 refs.
Order from SIA m\$2.40, ph\$3.30 60-18429

Trans. of la Chimica e l'Industria (Italy) 1959, v. 41,
no. 12, p. 1176-1180.
Another translation is available from CTS(Chem) \$8.00
as CTS(Chem)-104 [1960] 2400 words.

The essential aspects are described of co-polymeriza-
tion of vinyl aromatic monomers using catalysts of
 $AlR^3(C_2H_5)_3$ and $TiCl_4$ under conditions already demon-
strated as certainly stereospecific in homopolymeriza-
tion of the same monomers. Co-polymerizations are
examined of styrene with different styrenes substituted
in the nucleus by alkyl groups or halogen atoms
(o-methyl, p-methyl, m-methyl, p-ethyl, p-fluoro,
p-chloro, p-bromo-styrene) and with 1-vinyl
naphthalene.

60-18429

1. Vinyl compounds--
Polymerization
2. Copolymerization
1. Stanetti, D.
- II. Pajaro, G.
- III. Danusso, F.

143,039

Office of Technical Services
(Chemistry--Organic, TT,
v. 5, no. 3)

Detection and Determination of Manganese in Motor
Fuels Containing Additives, by Mario Pedinelli, 12 pp.
ITALIAN, per, la Chimica e l'Industria, Vol XLI,
No 12, 1959, pp 1180-1184.
K-H 10995

Sci-Fuels
March 64

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Chromatography Applied to the Continuous Control
of Industrial Plants. I. Analyses of a C₁ to C₈
Hydrocarbon Mixture, by A. Rho, et al.

ITALIAN, per, Chimica e l'Industria, Vol. XLI,
Dec, Milan, 1979, pp 1185-1188.

RISI 2023

Sci -- Chem

Jun 61

156,869

R-3937-D

Halogen Derivatives, by Francesco Minisci.

ITALIAN, per, Chimica Italiana, Vol LXXXIX, 1959,
pp 1922-1940.

*JPRS/Nav Propellant Plan

Sci - Chem
Mar 64

Acetylation of Cyclopentadienyl Vanadium
Tetracarbonyl, by F. Calderazzo, G. Rebando,
R. Nireoli.

MAINJAN, per, Chimica Industri, Vol XLII,
No 1, 1960, p 52.

OTS(Chem)-109

Sci.
26 May 62
Vol. IV, No 8

198, 244

Distribution of the Monomeric Units in Ethylene-
Propylene Copolymers, by G. Natta, G. Mazzanti,
23 pp.

ITALIAN, per, Chimica d. l'Industria, Vol XLII, No 2,
1960, pp 125-132.

SLA 60-16773

US Chem

190,054

Sci

Mar 62

Vol. IV, No 6

On the Synthesis of Dicobalt Octacarbonyl.
1. Study of the Synthesis of Dicobalt Octa-
Carbonyl in Homogeneous Phase in Hydrocarbon
Solvents, by P. Chini.

IMAKIAN, per, Chimica Industriale, Vol XLII,
No 2, 1960, pp 133-137.

OTS(Chem)-115

Sci.
115 May 62
Vol. IV, No 8

198, 246

On the Synthesis of Dicobalt Octacarbonyl.
II. Study of the Synthesis of Dicobalt Co-
tetracarbonyl, in Homogeneous Phase, in Basic
Solvents in the Lewis Sense, Synthesis in
Heterogeneous Phase, by P. Chini.

MINIARI, per, Chimica Industriale, Vol XLII,
No 2, 1960, pp 137-142.

CTB(Chem)-118

Encl
86 May 68
Vol IV, No 8

198,245

Di-Isothiocarbonyl Polymers, by G. Natta, M. Farina,
M. Porraldo.

ITALIAN, per, Chimica Industriale, Vol XLII,
No 3, 1960, pp 225-239.

CIS(Chem)-120

Sol.
25 May 62
Vol. IV, No 8

198, 243

Chirico, Aurelio de.
PHYSICOCHEMICAL RESEARCH ON SOLUTIONS OF
POLYCARBONATE IN CHLOROFORM. [1962] 8p.
18 refs.
Order from SLA \$1.10

62-16061

Trans. of [la] Chim[ica] e [l'] Ind[ustria] (Italy) 1960,
v. 42 [no. 3] p. 248-251.

DESCRIPTORS: *Carbonates, *Polymers, *Chloroform
Solutions, Physical properties, Chemical properties,
Viscosity, Light, Scattering.

Some physicochemical properties of the polycarbonate

$[-O-C_6H_4-C(CH_3)_2-C_6H_4-O-CO-]_n$ in chloroform

were studied by means of viscosity measurements and
measurements of the intensity of diffused light at the
"Flory temperature" of the solution. The results are
discussed according to the Flory-Fox theory. (Author)
(Chemistry--Physical, TT, v. 8, no. 7)

62-16061

I. Chirico, A. de

Office of Technical Services

The Behavior of O,O-Dialkylidithiophosphoryl-
lactic Acids (and Derivatives) With
Arsenious Acid and a Method for the
Selective Determination of Daid Compounds, by
R. Fusco, G. Marchese, 21 pp.

ITALIAN, per, Chimica e l'Industria,
Vol. XLII, No 4, 1960, pp 337-347.

ATS-59M42I

Sci
Vol IV, No 11
May 62

197, 941

Natta, G., Beati, E. and others.
GRAFT POLYMERS: POLYSTYRENE GRAFTED ON
POLYBUTENIL [1961] 10p. 4 refs.
Order from SLA \$1.10

61-16703

Trans. of [la] Chimica e [l] Dadaustria (Italy) 1960, 11. 42.
no. 4, p. 348-352.
Another translation is available from CTS(Chem) \$10.00
as CTS(Chem)-129 [1960] 10p.

DESCRIPTORS: *Polymers, *Styrenes, *Styrenes,
Polymerization.

For abstract see Technical Translations 6: 313, 1960.

(Chemistry--Organic. TT, v. 6, no. 3)

61-16703

1. Title: Graft polymers
I. Natta, G.
II. Beati, E.

180487

Office of Technical Services

Polymerizations Promoted by Metal Amides and Their
Stereospecificity, by G. Natta, G. Mazzanti, 16 pp.

ITALIAN, per, Chimica e l'Industria, Vol XLII, No 5,
1960, pp 457-462.

CTS(Chem)-133

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Vol IV, No 6

190,056

Electromers From Chloromethylated Polymers and
Copolymers of Alpha-Olefins, by G. Natta, G. Crespi,
H. Bruzzone, 13 pp.

ITALIAN, per, Chimica e l'Industria, Vol XLII, No 5,
1960, pp 463-467.

CTB(Chem)-134

Sci

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Vol. IV, No 6

190,053-

Anionic Coordination Copolymerization of Propylene
with 1-Butene, by G. Mazzanti, A. Valvassori, 20 pp.

ITALIAN, per, Chimica e l'Industria, Vol XLII,
No 5, 1960, pp 463-474.

CIS(Chem)-135

Sci

Mar 62

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Hydrolysis of Titanium Cyclopentadienyl
Trichloride, by L. Porri, P. Corradini,
3 pp.

ITALIAN, per, Chimica e l'Industria,
Vol XLIX, No 5, 1960, p 487.

Chemical Translating
Service-136

Eni
Vol IV, No 5
Mar 62

188,447

Ercoli, R., Signorini, G., and Santambrogio, E.
KINETICS OF THE HYDROCARBOXYLATION OF
OLEFINS. [1963] [39]p. 16 refs.
Order from SLA 43,60

63-14492

Trans. of In. Chimica e Industria (Italy) 1960, v. 42,
no. 6, pp. 588-598.

DESCRIPTORS: *Cyclohexenes, *Reaction kinetics,
*Carbon compounds, *Monoxides, Water, Acetone,
Pressure, *Heat of activation, Carbonyl radicals,
Benzoin acids, Cobalt compounds.

The kinetic study of the hydrocarboxylation of cyclo-
hexene with carbon monoxide and water in the liquid
phase under pressure with acetone as solvent and di-
cobalt-octacarbonyl as catalyst gave the following re-
sults: The reaction appears to be of 1/2 order with re-
spect to the olefin and of first order with respect to
(Chemistry: Physical, TT, v. 10, no. 5) (over)

63-14492

I. Ercoli, R.
II. Signorini, G.
III. Santambrogio, E.

Office of Technical Services

Chromatographic Analysis of ...
Iron Oxide, by G. Glime, G. Pignatelli

ANALYST, par, Chimica e Industria, Vol. 81
No. 6, 1960, pp 598-603.

CSIRO/No 5054

Set-M & N
Jun 63

234,367

Optically Active Vinyl Polymers. I.
Preparation of Isotactic Polymers of
Optically Active α -Olefins, by P. Pino,
O. P. Lorenzi, L. Lardicci, 29 pp.

ITALIAN, per, Chimica et l'Industria,
Vol. XLIX, No 7, 1960, pp 712-721.

Chemical Translating
Service-148

Sci
Vol IV, No 9
Mar 62

187, 022

Rossi, C., Munari, S. and others.
CHROMATOGRAPHY IN GAS PHASE OF C₁-C₄
HYDROCARBONS ON ORGANOPHILIC SILICAS
(Cromatografia in Fase Gas di Idrocarburi C₁-C₄ su
Silici Organofili). [1961] [15]p. (foreign text included)
6 refs.

Order from SIA \$1.60

62-10318

Trans. of la Chimica e l'Industria (Italy) 1960, v. 42,
no. 7, p. 714-727.

DESCRIPTORS: *Hydrocarbons, Isomers, *Silicon
compounds, *Oxides, Coatings, Chromatographic
analysis, *Gas chromatography, Organic compounds,
Adsorption.

Silicas coated with organic radicals, obtained by
nitrosylation with alcohols, were used in the prepa-
(Chemistry--Analytical, TI, v. 7, no. 8) (over)

62-10318

I. Rossi, C.
II. Munari, S.

Office of Technical Services

Dielectric Properties of Graft Polymers:
Polystyrene Grafted on Polybutene Exhibiting
Isotactic Crystallinity, by M. Pegoraro,
M. Banti, F. Severini, 14 pp.

ITALIAN, per, Chimica e Industria,
Vol XLII, No 8, 1960, pp 843-848.

Chemical Translating
Service-157

Sci
Vol IV, No 9
Mar 62

181, 021

Perrotti, G. and Castellfranchi, G.
NEW POSSIBLE STABILIZERS FOR SYNTHETIC
ELASTOMERS. 11 Apr 62 [16]p. 4 refs.
Order from SLA \$1.50 63-10819

Trans. of [la] Chimica e l'Industria (Italy) 1960,
v. 42, p. 854-858.

DESCRIPTORS: Stabilization, *Elastomers, Mene
synthesis, *Naphthalenes.

(Materials--Elastomers, TT, v. 9, no. 12)

63-10819

I. Perrotti, G.
II. Castellfranchi, G.

Office of Technical Services

Farina, M., Peraldo, M., and Bressan, G.
PREPARATION, INFRARED SPECTRA, AND CON-
FORMATIONAL ISOMERS OF cis- AND trans-ALICE-
NYL ETHERS. Jan 63, 4900 words, 22 refs.
Order from CTS(Chem) \$9.80 CTS(Chem)-315
subsequent copies \$3.25/ea.

Trans. of [in] Chimica e [l']Industria (Italy) 1960, v. 42,
no. 9, p. 967-974.

DESCRIPTORS: "Ethers, Preparation, Spectrum (Infra-
red), Molecular isomerism.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12665

- I. Farina, M.
- II. Peraldo, M.
- III. Bressan, G.
- IV. CTS(Chem)-315
- V. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Caprara, G. and Lemetre, G.
PHENOL AND CYCLOHEXANONE FROM CYCLO-
HEXYLBENZENE. [1962] 11p.
Order from K-H \$13.75 K-H 12005

Trans. of la Chimica e [l']Industria (Italy) 1960, v.
42, no. 9, p. 974-977.

DESCRIPTORS: *Phenols, *Cyclohexanones, *Ben-
zenes, *Hexyl radicals.

(Chemistry--Organic, TT, v. 9, no. 9)

05-12944

- I. Caprara, G.
- II. Lemetre, G.
- III. K-H-12005
- IV. Kresge-Honker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

61-12140

Baccaredda, M. and Butta, E.
DYNAMIC MECHANICAL PROPERTIES AND GLASSY
TRANSITION OF cis-POLYBUTADIENE. [1960] 320
words 28 refs.
Order from CTS(Chem) \$12.00 CTS(Chem)-174
subsequent copies \$2.15/ea.

Trans. of [la] Chimica e Industria (Italy) 1960, v. 42,
no. 9, p. 978-981.

143,060

- I. Butadiene polymers--
Mechanical properties
- I. Baccaredda, M.
- II. Butta, E.
- III. CTS(Chem)-174
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 3)

Natta, G., Giachetti, E. and others.
CONTROL OF THE MOLECULAR WEIGHT OF
ISOTACTIC POLYPROPYLENE BY MEANS OF ZINC
ALKYLIS. (1960) (1000 words 20 refs.
Order from CTS(Chem) \$24.00 CTS(Chem)-178
subsequent copies \$4.00/ea.

Trans. of [la] Chimica e Industria (Italy) 1960, v. 42,
no. 10, p. 1091-1099.

143,061

(Chemistry--Organic, TT, v. 5, no. 3)

61-12141

1. Propene polymers--
Molecular weight
2. Zinc compounds (Organic)--
Chemical reactions
1. Natta, G.
- II. Giachetti, E.
- III. CTS(Chem)-178
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Natta, Giulio.
CATALYTIC ASPECTS OF STEREOSPECIFIC POLY-
MERIZATIONS. [1960] 13,000 words, 79 refs
Order from CTS(Chem) \$48.00 CTS(Chem)-179
subsequent copies \$8.00/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1960,
v. 42, no. 11, p. 1207-1225.

147,049

(Chemistry--Organic, TT, v. 5, no. 5)

61-12498

1. Ethylenes--Polymerization
 2. Metalorganic compounds--
Catalytic properties
 3. Polymerization--Analysis
 4. Title: Stereospecific
polymerization
- I. Natta, G.
 - II. CTS(Chem)-179
 - III. Chemical Translating
Service, Palo Alto, Calif

Office of Technical Services

Bruzzese, Mario and Crespi, Giovanni.
THE CHLORINATION OF ETHYLENE-PROPYLENE
COPOLYMERS. [1960] 3000 words, 9 refs.
Order from CTS(Chem) \$12.00 CTS(Chem)-180
subsequent copies \$2.00/ea.

Trans. of [la] Chimica (Milano) (Italy) 1960,
v. 42, no. 11, p. 1226-1230.

146,916

(Chemistry--Organic, TT, v. 3, no. 5)

61-12409

1. Ethylene polymers--
Halogenation
2. Propene polymers--
Halogenation
3. Copolymerization
1. Bruzzese, M.
II. Crespi, G.
III. CTS(Chem)-180
IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

61-12500

Mostardini, Elena, Calderazzo, Fausto, and
Ercoli, Raffaello
PREPARATION OF CHROMOTRICARBONYLRENZ-
ALDEHYDE AND ITS DERIVATIVES. [1960]
2500 words, 7 refs
Order from CTS(Chem) \$10.00 CTS(Chem)-181
subsequent copies \$1.65/ea.

Trans. in (La) CHIMICA E INDUSTRIA (Italy) 1960,
v. 42, no. 11, p. 1231-1234.

148,605

1. Benzaldehyde--Synthesis
2. Chromium compounds
(Organic)--Synthesis
- I. Mostardini, E.
- II. Calderazzo, F.
- III. Ercoli, R.
- IV. CTS(Chem)-181
- V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 7)

Asta, Gino dalli and Oddo, Nino.
CATIONIC STEREOSPECIFIC POLYMERIZATION OF
SOME ALKYL ETHERS. [1960] 2000 words & refs.
Order from CTS(Chem) \$8.00 CTS(Chem)-182
subsequent copies \$1.30/ea.

Trans. of [la] Chimica e [l] Industria (Italy) 1960,
v. 42, no. 11, p. 1234-1237.

146,911

61-12561

1. Ethers--Polymerization
2. Vinyl compounds--Polymerization
3. Title. Stereospecific polymerization
- I. Asta, G. dalli
- II. Oddo, N.
- III. CTS(Chem)-182
- IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 5)

R-984-H

Comportamento di E plosivi all' Azione di
Naggi Gamma, by E. Piantanida, M. Piazzì.

ITALIAN, per, La Chimica e l'Industria, Nov 1960,
p 1238-1242

WJPRS for Picatinny Arsenal
Dover, New Jersey

18 Aug 62

New Synthesis of Isocyanic Esters, by S. Rossi,
et al.
ITALIAN, per, Chimica e l'Industria, Vol 42,
1960, p 1243.
NTC 71-13677-07C

Feb 72

Peraldo, Mario and Farina, Mario.
INFRARED SPECTRA OF DEUTERATED POLY-
PROPYLENE. I. CRYSTALLINE ISOTACTIC POLY-
MERS. 1961, 8500 words, 11 refs.
Order from CTS(Chem) \$34.00 CTS(Chem)-190
subsequent copies \$5.50/ea.

Trans. of [in] Chimica e [in] Industria (Italy) 1960,
v. 62, no. 11, p. 1349-1361.

DESCRIPTORS: *Deuterated compounds, *Polymers,
*Propylenes, *Infrared spectroscopy, Crystals,
Synthesis.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22481

- I. Peraldo, M
- II. Farina, M
- III. CTS(Chem)-190
- IV. Chemical Translating
Service, Palo Alto, Calif.
- V. Title: Crystalline...

16965.

Office of Technical Services

Natta, Giulio, Farina, Mario and others.
TRITACTIC POLYMERS. LETTER TO EDITOR
[1960] 1100 words. 3 refs.
Order from CTS(Chem) \$4.40 CTS(Chem)-188
subsequent copies \$0.75/ea.

Trans. of [la] Chimica e [l] Industria (Italy) 1960,
v. 42, no. 12, pp. 1361-1363.

148606

1960-12-12

(Chemistry--Organic, TT, v. 5, no. 7)

61-12502

1. Polymers--Molecular structure
 2. Diene compounds--Molecular structure
 3. Acrylic resins--Molecular structure
 4. Title: Tritactic polymers
- I. Natta, G.
 - II. Farina, M.
 - III. CTS(Chem)-188
 - IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

Polym. (Catalyst) Polymer, Molecular and others.
ANALYTICAL SYNTHESIS OF POLYTACTIC POLY-
PROPYLENE. (1961) 3p.
Order from ATS \$6.30

ATS-85N491

Treat. of (1a) Chemical and (1b) (1960).
v. 42, no. 12, pp. 1353-1364.

- 41-10174
1. Polypropylene, sheets
 2. Tactic Polypropylene polymers
 - I. Natta, G.
 - II. Fieser, M.
 - III. ATS 85N491
 - IV. Associated Technical
Services, Inc.,
East Orange, N. J.

1-314

Office of Technical Services

(Chemistry - Organic, T.C. v. 5, no. 11)

Corbo, G.
THERMAL DEHYDROCHLORINATION OF POLY-
VINYL CHLORIDE. [1961] 3p.
Order from ATS \$8.75

ATS-45P591

Journal of Polymer Science: Polymer Chemistry Edition
1961, v. 43, no. 1, p. 8-9.

DESCRIPTORS: *Vinyl chlorides, Polymers, *De-
hydrochlorination, *Halogenation, Chemical reactions,
Chlorides.

(Materials--Plastics, TT, v. 8, no. 4)

67-1141

- I. Corbo, G.
- II. ATS-45P591
- III. Associated Technical Ser-
vices, Inc., East Orange,
N. J.

ATS/1052-77

Office of Technical Services

Creep, G. and Bruzzone, M.
THE VULCANIZATION OF CHLORINATED ETHYLENE-PROPYLENE COPOLYMERS (La Vulcanizzazione dei Copolimeri Etilene-Propilene Clorurati). (1961)
[15] p. 8 refs.

Order from SIA \$1.60

61-16534

63-26056

Transl. of *la Chimica e l'Industria* (Italy) 1961, v. 43, no. 2, p. 137-142.

Another translation is available from CTR(Chem) \$11.00, subsequent copies \$2.00/ea., as CTR(Chem)-204, 1961, 2900 words.

DESCRIPTORS: *Polymers, *Ethylenes, *Propenes, Chlorination, *Rubber, *Vulcanization, Elastomers, Mechanical properties.

The chlorinated ethylene-propylene copolymers can be vulcanized with the conventional mixtures containing sulfur since during the thermal cycle of the vulcanization a partial dehydrochlorination of the polymer occurs with consequent formation of unsaturations.
(Materials--Rubber, TT, v. 6, no. 5) (over)

61-16534

1. Creep, G.
2. Bruzzone, M.

180468

Office of Technical Services

Phenomenon of Fixing in a Liquid Phase.
by Gravity Over an Irregular Solid Surface, by
G. Antarita, et al, 17 pp.

ITALIAN, per, La Chimica e L'Industria, 1961,
pp 142-150.

ACSI 1-3090
ID 221169

217,408

Sci - Phys, Chem
Dec 62

61-22482

Natta, Giulio, Parina, Mario and others.
ASYMMETRIC SYNTHESIS OBTAINED BY PROCESSES
OF CATIONIC CHARACTER. 1961. 1180 words, 3 refs.
Order from CTS(Chem) \$4.00 CTS(Chem)-205
subsequent copies \$1.00/ea.

Transl. of Chimica e Industria (Italy) 1961,
v. 43, no. 2, p. 161-162.

DISCRIPTION: "Polymers, Synthesis, Catalysts,
"Heterocyclic compounds, Polymerization."

I. Natta, G.
II. Parina, M.
III. Chem(CTS)-205
IV. Chemical Translating
Service, Palo Alto, Calif.

169610

(Chemistry-Organic, TT, v. 6, no. 2)

Chiusoli, G. P. and Merzoni, S.
A NEW METHOD OF CATALYTIC CARBOXYLA-
TION. Nick 5 of Reactions of Allyl Derivatives with
Acetylene and Carbon. [1961] [14p. 14 refs.
Order from SLA \$1.60 61-18689

Trans. of *Chimica e Industria (Italy)* 1961, v. 43,
p. 259-267.

DISCUSSION: *Acetylenes, Metalorganic compounds,
Hydrogen, Synthesis, *Allyl radicals, *Nickel com-
pounds, *Carbonyl radicals, Catalysis, Catalysts,
*Carbon compounds, *Monoxides, Chemical reactions.

After a brief discussion of the reaction mechanism
based on recent progress in the field of the chemistry
of metallo-organic compounds, there is described a
method of carboxylation consisting in the use of nickel
compounds with catalytic action. (Author)
(Chemistry--Physical, TT, v. 6, no. 12)

61-18689

I. Chiusoli, G. P.
II. Merzoni, S.
III. Title: Reactions...

Office of Technical Services

Addition Reactions of the Allyl Group: Synthesis of
β-Propionic Compounds, by G. P. Chiusoli.

ITALIAN, per, la Chimica e l'Industria, Vol XLIII,
No 4, 1961, pp 365-368.

SIA 61-1/690

Sol
Mar 62

Vol VII, No2

189,546

61-22485

Carlenda, Tullio.
PROCESSING AND VULCANIZATION OF CIS-1,4-
POLYBUTADIENE. 1961. 4000 words, 12 refs.
Order from CTS(Chem) \$16.00 CTS(Chem)-206
subsequent copies \$2.70/ea.

Trans. of Ind. Chimica e [I]ndustria (Italy) 1961,
v. 41, no. 4, p. 368-375.

DESCRIPTOR: Polymers, *Butadienes, *Vulcaniza-
tion, Vulcanizates, Physical properties, Catalysts,
Orbit, Aluminum compounds, Halides.

(Chemistry--Organic, TT. v. 6, no. 2)

I. Carlenda, T.
II. CTS(Chem)-206
III. Chemical Translating
Service, Palo Alto, Calif.

16961.

Office of Technical Services

Lanzavecchia, Giuseppe
A STUDY OF SOME PHYSICAL PROPERTIES OF
1,4-CIS-POLYBUTADIENES OBTAINED BY MEANS OF
NEW, SOLUBLE CATALYSTS. 1961, 1180 words,
28 refs.

Order from CTS(Chem) \$13.20 CTS(Chem)-207
subsequent copies \$2.20/ea.

Trans. of [It.] Chimica e [I.] Industria (Italy) 1961,
v. 43, no. 4, p. 370-381.

DESCRIPTORS: *Polymers, *Butadienes, Physical
properties, Catalysts, Ethylenes.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22463

I. Lanzavecchia, G.
II. Chem(CTS)-207
III. Chemical Translating
Service, Palo Alto, Calif.

169612

Office of Technical Services

Stress Corrosion Testing With Anodic Current
Applied to Al-Mg Alloy, by Anna Prati.
TCHUKIAN, par, Chim Ind, Vol XLIII, 1961,
pp 381-389.

AEC/Culcabeth Tr 63/7
On loan only

UKAEA-Culcabeth-Tr-63/7

Apr 65
List # 96

63-12698

Casati, G., Pizzi, F. and others.
CONSTITUTION OF ECHINULIN: SYNTHESIS OF
2-TERTIARY-AMYL-5,7-DISOAMYLTRYPTOPHAN
(Sulla Costituzione dell'Echinulina: Sintesi del 2-Terz.
Amil-5,7-Disoamiltriptofino) tr. by D. A. Sinclair.
1962, (p. 7 refs. NRCC Technical Trans. 1051.
Order from NRCC \$0.50 NRCC C-4199

Trans. of la Chimica e l'Industria (Italy) 1961, v. 43,
p. 412-414.

DESCRIPTORS: Peptides, *Amino acids, *Tryptophan,
Pentyl radicals, Synthesis, Condensation reactions.

(Biological Sciences--Biochemistry. TT, v. 9, no. 7)

- I. Title: Echinulin
- I. Casati, G.
- II. Pizzi, F.
- III. Title: Synthesis...
- IV. NRCC TT-1051
- V. NRCC C-4199
- VI. National Research Council
of Canada

Office of Technical Services

Conti, Lionetto, Lardicci, Luciano, and Pino, Piero.
SYNTHESIS OF (+)-TRIS(5-2-METHYLBUTYL) ALU-
MINUM. 1961. 590 words, 7 refs.
Order from CTS(Chem) \$2.20
Subsequent copies \$0.50/ea.

CTS(Chem)-218

Trans. of [la] Chimica e [l'] Industrie (Italy) 1961, v. 43
(no. 4) p. 414.

DESCRIPTORS: Methyl radicals, Butyl radicals, *Al-
uminum, Synthesis, Metalorganic compounds.

(Chemistry--Organic, TT, v. 6, no. 10)

61-25419

- I. Conti, L.
- II. Lardicci, L.
- III. Pino, P.
- IV. CTS(Chem)-218
- V. Chemical Translating
Service, Palo Alto, Calif.

7339

Office of Technical Services

61-22739

Jasques, L., Porri, L. A. and others.
COPOLYMERIZATION OF BUTADIENE AND ISO-
PRENE WITH CATALYSTS OBTAINED FROM CO-
BALD DIACETYLACETONATE-DIBUTYLALUMINUM
CHLORIDE-TOLUENE. 1961, 2500 words, 10 refs.
Order from CTS(Chem) \$10.00 CTS(Chem)-213
subsequent copies \$1.70/ea

Trans. of [a] Chimica e [A] Industria (Italy) 1961,
v. 43, no. 3, p. 309-312.

DESCRIPTORS: "Butadienes, "Isoprene, "Copolymeri-
zation, "Catalysts, Cobalt compounds, Toluene,
Acetyl radicals, Acetone, Aluminum compounds,
Chlorides, Ethyl radicals.

I. Pasquon, L.
II. Porri, L. A.
III. CTS(Chem)-213
IV. Chemical Translating
Service, Palo Alto,
Calif.

180535

Office of Technical Services

(Chemistry--Organic, TT, v. 6, no. 3)

Matta, G., Porri, L., and others.
OPTICALLY ACTIVE ISOTACTIC trans-1,
4 POLYPENTADIENE. Letter to the Editor. 1961,
900 words, 3 refs.
Order from CTS(Chem) \$4.00 CTS(Chem)-211
subsequent copies \$0.75/ea.

Trans. of [16] Chimica e [17] Industria (Italy) 1961,
v. 45, no. 6, p. 3199.

DESCRIPTORS: *Hexadienes, Polymers, Synthesis,
Optics.

(Chemistry--Organic, TT, v. 6, no. 6)

61-22740

- I. Matta, G.
- II. Porri, L.
- III. CTS(Chem)-216
- IV. Chemical Translating
Service, Palo Alto,
Calif.

176638

Office of Technical Services

Longlave, C., Castelli, R., and Croce, G. P.
NEW STEREOSPECIFIC CATALYSTS FOR THE
POLYMERIZATION OF BUTADIENE. 1961. 3500
words. 12 refs.

Order from CTS (Chem) \$14.00
subsequent copies \$2.30/ea.

CTS(Chem)-230

Trans. cd [la] Chimica e [l] Industria (Italy) 1961,
v. 43, no. 6, p. 425-430.

DESCRIPTORS: "Butadienes. Polymerization. Catalysts
*Metalorganic compounds, Catalysts, Cobalt compounds,
Aluminum compounds, Chlorides, Complex compounds,
Stereochimistry, Polymers.

(Chemistry--Organic, TT, v. 6, no. 10)

61-25423

- I. Longlave, C.
- II. Castelli, R.
- III. Croce, G. P.
- IV. CTS(Chem)-230
- V. Chemical Translating
Service, Palo Alto, Calif.

67342

Office of Technical Services

Chiusoli, Gian Paolo.
PROGRESS IN ORGANIC REACTIONS WITH CARBON
MONOXIDE. Paper from Fair of Milan (no. 39) 18-20
Apr 61. 1961. 2400 words. 15 refs.
Order from CTS(Chem) \$9.60 CTS(Chem)-233
Subsequent copies \$1.60/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1961, v. 43,
no. 6, p. 638-640.

DESCRIPTORS: Carbon compounds, Monoxides,
Metallic compounds, Carbonyl radicals, Chemical
reactions, Synthesis, Catalysts.

(Chemistry--Organic, TT. v. 6, no. 10)

61-25424

- I. Chiusoli, G. P.
- II. Title: Fair...
- III. CTS(Chem)-233
- IV. Chemical Translating Service,
Palo Alto, Calif.

61343

Office of Technical Services

Gardjian, Vahan.
PROGRESS IN THE FIELD OF DIRECT OXIDATION
OF ETHYLENE. [1962] 8p. 26 refs.
Order from CTS (Chem) \$10.00 CTS(Chem)-286
subsequent copies \$1.50/ea.

Trans. of (la) Chimica e (II) Industria (Italy) 1961,
v. 43, no. 6, p. 641-643.

DESCRIPTORS: *Ethylene, *Oxidation, Ethylene
derivatives, *Aldehydes, Catalysts.

(Engineering--Chemical, TT, v. 8, no. 1)

62-12961

I. Gardjian, V.
II. CTS(Chem)-286
III. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

61-25425

Berti, Lamberto.
A NEW PETROLEUM-DERIVED ELASTOMER, ITS
CHARACTERISTICS AND USES. Paper from Fair of
Milan (nos. 38) 18-20 Apr 61. 1961. 2850 words, 5 refs.
Order from CTS (Chem) \$11.40 CTS(Chem)-234
subsequent copies \$1.90

Tenac. of [in] (Chimica e [1]Industria (Italy) 1961,
v. 6, no. 6, pp. 644-648.

DESCRIPTIONS: Italy. Chemical industry. *Elastomers.
*Petroleum. Industrial research. Polymerization.
*Synthetic rubber. Vulcanizates.

- I. Berti, L.
- II. Title: Fair...
- III. CTS(Chem)-234
- IV. Chemical Translating
Service, Palo Alto,
Calif.

(Materials--Elastomers, TT, v. 6, no. 11)

Office of Technical Services

Zannetti, R., Manarelli, P., and Buzzoni, G. C.
CRYSTALLINITY AND POLYMORPHISM OF
POLY-n-BUTYLENE. [1961.] 4000 words, 10 refs
Order from CTS(Chem) \$16.00 CTS(Chem)-235
Subsequent copies \$2.00/ea

Trans. of [la] Chimica e [l] Industria (Italy) 1961.
v. 43, no. 7, p. 735-740.

DESCRIPTORS: *Butenes, *Polymers, Crystal
structure, *Polymorphism, Density, X-ray diffraction
analysis.

(Chemistry--Organic, YT, v. 7, no. 7)

62-12300

- I. Zannetti, R.
- II. Manarelli, P.
- III. Buzzoni, G. C.
- IV. CTS(Chem)-235
- V. Chemical Translation
Service, Palo Alto,
Calif.

62-14311

Office of Technical Services

62-12299

Vecchi, F., Zannetti, R. and others.
RELATION BETWEEN THE SURFACE AREA OF
TiCl₃ AND ITS CATALYTIC ACTIVITY IN STERO-
SPECIFIC CATALYSTS FOR THE POLYMERIZATION
OF ALKYL-OLIFENS. [1961] 2200 words, 11 refs.
Order from CTS(Chem) \$8.80 CTS(Chem)-240
subsequent copies \$1.75/ea.

Trans. of [In] Chimica e [In] Industria (Italy) 1961,
v. 43, no. 7, p. 741-743.

DESCRIPTORS: *Titanium compounds, *Chlorides,
Surface area, *Catalysts, *Ethylenes, Polymerization,
Chemical industry.

(Chemistry--Physical, TT, v. 7, no. 9)

- I. Vecchi, F.
- II. Zannetti, R.
- III. CTS(Chem)-240
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Natta, G., Pasquon, I., and Giuffrè L.
MECHANISM OF THE REGULATION OF THE MO-
LECULAR WEIGHT OF ISOTACTIC POLYPROPYL-
ENE WITH ZINC ALKYLs. [1961] 2300 words, 16 refs.
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Trans. of [la] Chimica e [l] Industria (Italy) 1961,
v. 45, no. 8, p. 871-874.

DESCRIPTORS: *Propenes, *Polymers, Molecular
weight, Zinc, Alkyl radicals, Polymerization,
Titanium compounds, Chlorides, Ethyl radicals,
Aluminum, Catalysts, Catalysts.

(Chemistry--Organic, TT, v. 7, no. 7)

62-12296

- I. Natta, G.
- II. Pasquon, I.
- III. Giuffrè, L.
- IV. CTS (Chem)-236
- V. Chemical Translating Serv-
ice, Palo Alto, Calif.

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Natta, G., Pasquon, I., and Giuffrè, I.
REGULATION OF THE REGULATION OF MOLECULAR
WEIGHTS OF ISOTACTIC POLYPROPYLENE BY ZINC
ACETATE. [1961] [13].
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Trans. of the Chemical Society (Italy) 1961 v. 43
[no. 6] p. 171-174.
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[1961] 236 words.

DESCRIPTION: *Polyethylene plastics, *Propenes,
Polymerization, Catalysts, Molecular weight, Control,
*Ziegler catalysts, *Allyl radicals, Ethyl radicals,
*Tine compounds, Aluminum compounds, Titanium
compounds.

When polypropylene to isotactic polymers,
with the aid of a catalytic system prepared from violet
Catalytic-Plastics, TT, v. 10, no. 1) (over)

CONTENTS

- I. Natta, G.
- II. Pasquon, I.
- III. Giuffrè, I.

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